

Project Title: Hydrographic Monitoring Across Coastal Louisiana for Storm Damage Impact

Federal Program: Coastal Impact Assistance Program (CIAP)

Nominating Entity: Louisiana Department of Wildlife and Fisheries, Marine Fisheries Division

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Total CIAP Funds Requested:	Four year project	Year 1 \$ 238,500
		Year 2 \$ 228,000
		Year 3 \$ 220,500
		Year 4 \$ 220,000
		Total \$ 907,000

Infrastructure Funds Proposed: None

Description and Location of Project:

Collection of continuous, real-time salinity, water temperature, water level (wave height offshore), wind speed and direction, barometric pressure, rainfall and air temperature data from a network of data collection platforms located across coastal Louisiana. These stations will be cooperatively maintained between LDWF and the US Geological Survey (USGS). Data processing and data management work to be performed at LDWF facilities in Baton Rouge, Louisiana.

Project Type:

1. Conservation, restoration and protection of coastal area, including wetland.
2. Mitigation of damage to fish, wildlife and natural resources.

Project Justification:

The value of long-term maintenance of the network of continuous real-time hydrographic data recorders in Coastal Louisiana to measure salinity, water temperature, water level (wave height offshore), wind speed and direction, barometric pressure, rainfall and air temperature has been proven time and again during the last 25 years of the network's operation. Droughts and brown

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CIAP Project Narrative

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marsh, floods, tropical storms and hurricanes have all produced negative impacts in Louisiana's coastal zone that have initiated research into cause and effect, and restoration of commercial and recreational fisheries, as well as providing data for projects such as freshwater diversions to mitigate damages to Louisiana's coastal habitats and environments and management of shellfish resources. The long-term data sets provided by this network are currently being used to analyze before and after conditions of nursery grounds for coastal fisheries that were heavily impacted by recent hurricanes Katrina and Rita. They will continue to be used to evaluate the ongoing impacts of these storms on the Louisiana coast, its coastal habitats, fisheries and ecology.

This hydrographic monitoring project will provide for the continued upkeep and maintenance of the LDWF network of continuous recorders and for managing the data, including updating and improving the system data dictionary. Currently, there are 15 stations in the LDWF network located across coastal Louisiana from the Pearl River to Calcasieu Pass that log and transmit the above listed parameters in near real-time through satellite to USGS, in cooperation with LDWF. The data will be downloaded, processed and stored on the LDWF data management system to be used for fishery management as well as to fill data requests from other state and federal agencies, environmental researchers, fisheries managers, and the public.

Project cost share: None

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Budget Category	Budget Period 1 1/01/07– 12/31/07	Budget Period 2 1/01/08– 12/31/08	Budget Period 3 1/01/09– 12/31/09	Budget Period 4 1/01/09– 12/31/09	TOTAL DIRECT CHARGES
Personnel	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 40,000
Fringe Benefits	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 12,000
Travel	\$ 500	\$ 500	\$ 500	\$ 500	\$ 2,000
Equipment	\$ 20,000	\$ 10,000	\$ 2,000	\$ 2,000	\$ 34,000
Supplies	\$ 1,000	\$ 500	\$ 1,000	\$ 500	\$ 3,000
Contractual	\$204,000	\$ 204,000	\$ 204,000	\$ 204,000	\$ 816,000
Construction	0	0	0	0	0
Other	0	0	0	0	0
TOTAL DIRECT CHARGES	\$ 238,500	\$ 228,000	\$ 220,500	\$ 220,000	\$ 907,000